

National Wetlands Inventory

Fisheries and Habitat Conservati

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Frequently Asked Questions



Wetlands provide a multitude of ecological, economic and social benefits. They provide habitat for fish, wildlife and a variety of plants. Wetlands are nurseries for many saltwater and freshwater fishes and shellfish of commercial and recreational importance. Wetlands are also important landscape features because they hold and slowly release flood water and snow melt, recharge groundwater, act as filters to cleanse water of impurities, recycle nutrients, and provide recreation and wildlife viewing opportunities for millions of people.



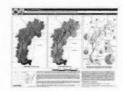
Latest News and Reports



Status and Trends of Wetlands in the Conterminous United States 2004 to 2009: Report to Congress on the status and trends of our Nation's wetlands resources

This report is the latest in a continuous series spanning 50 years of wetlands data. It represents the most comprehensive and contemporary effort to track wetlands resources at a national scale.

Click here to download the report and related documents.



Characterization of Lands Inundated by the Flood Event of 2011

In April and May of 2011, flooding inundated lands along the Ohio and Lower Mississippi Rivers. Flood levels along portions of the Mississippi River peaked at the highest levels since 1937. An analysis of the extent of flooding was determined by the comparison of MODIS imagery between pre-flood and flood crest conditions. Click here to download (67MB PDF document).



Free Publications

We have a limited amount of hard copy publications available for free: 2000 and 2006 Status and Trends Reports, Classification of Wetlands and Deepwater Habitats, and Wetlands Coloring Books. Send your request (name and address) to Wetlands_Team@fws.gov.



Data Collection Requirements and Procedures for Mapping Wetland, Deepwater and Related Habitats
With the adoption of a new Federal Wetlands Mapping Standards, the USFWS has developed an important



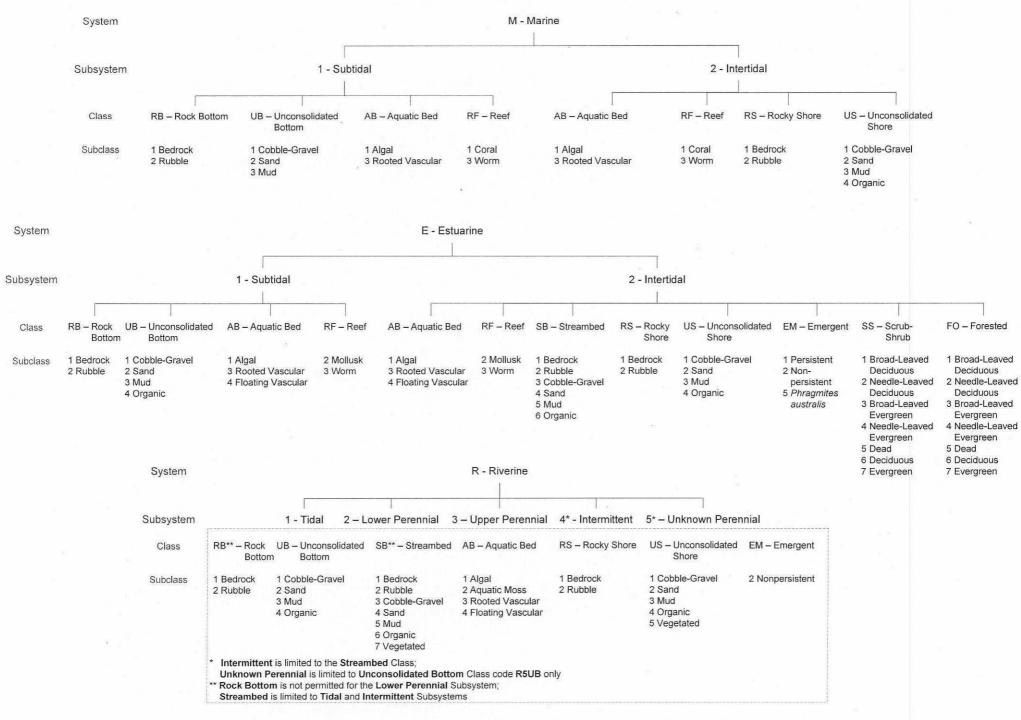
<u>companion document</u> (1MB PDF) that describes the technical procedures and requirements for wetlands map data. The document is intended to aid organizations or individuals mapping wetlands and applying the Cowardin *et al.* classification system. It explains the appropriate application of wetland classification and mapping process, and how to achieve the data quality requirements now required in the new FGDC Standards.

Please visit our News page for a complete list of the latest News and Reports.

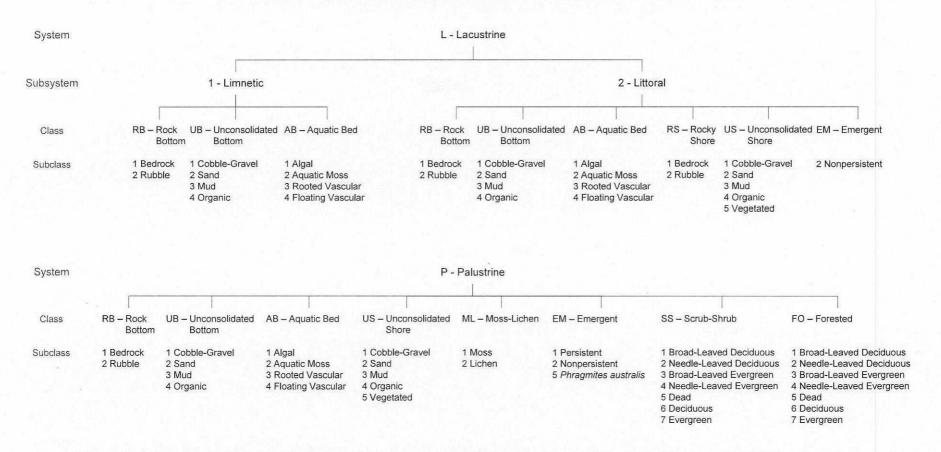
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WETLANDS AND DEEPWATER HABITATS CLASSIFICATION



WETLANDS AND DEEPWATER HABITATS CLASSIFICATION



		N quately describe the wetland and deep applied at the class or lower level in the			et and see that the feet	tem.	
	Water Regime		Special Modifiers	- de l'amenda W	ater Chemistr	y	Soil
Nontidal	Saltwater Tidal	Freshwater Tidal		Coastal Halinity	Inland Salinity	pH Modifiers for all Fresh Water	
A Temporarily Flooded	L Subtidal	S Temporarily Flooded-Tidal	b Beaver	1 Hyperhaline	7 Hypersaline	a Acid	g Organic
B Saturated	M Irregularly Exposed	R Seasonally Flooded-Tidal	d Partly Drained/Ditched	2 Euhaline	8 Eusaline	t Circumneutral	n Mineral
C Seasonally Flooded	N Regularly Flooded	T Semipermanently Flooded-Tidal	f Farmed	3 M ixo haline (Brackish)	9 Mixosaline	i Alkaline	
E Seasonally Flooded/	P Irregularly Flooded	V Permanently Flooded-Tidal	h Diked/Impounded	4 Polyhaline	0 Fresh		
Saturated			r Artificial	5 M eso haline			
F Semipermanently Flooded			s Spoil	6 Oligo haline			
G Intermittently Exposed			x Excavated	0 Fresh			
H Permanently Flooded							
J Intermittently Flooded							
K Artificially Flooded							

Wetlands and Deepwater Habitats Mapping Codes

							Sys	stem and Su	ubsystem						
			Ma	rine	Estu	arine	Riverine [†] La		Lacus	strine	Palustrine				
		Code	Subtidal M1	Intertidal M2	Subtidal E1	Intertidal E2	Tidal R1	Lower Perennial R2	Upper Perennial R3	Intermittent R4	Limnetic L1	Littoral	N/A P		
-	Rock Bottom	RB	IVI I	IVIZ	EI	EZ	KI	INZ	L/2	R4	L!	LZ			_
	Bedrock	RB1		-				-		-				Nontidal F, G, H, K	1
	Rubble	RB2						-						Tidal L, T*, V*	1
	Unconsolidated Bottom	UB													Η.
	Cobble-Gravel	UB1													
	Sand	UB2												Nontidal F, G, H, K	1
	Mud	UB3												Tidal L, T*, V*	1
	Organic	UB4											100 B 1000		1
	Aquatic Bed	AB				-							-		┪
	Algal	AB1													
S	Aquatic Moss	AB2	en media e											Nontidal C, F, G, H, K	
	Rooted Vascular	AB3	THE LANGE						Falent B					Tidal L, M, N, R*, T*, V*	Т
	Floating Vascular	AB4							E STATE OF THE STA			HE OF			1
	Reef	RF													Water Regimes
	Coral	RF1												Tidal I M N B	
das	Mollusk	RF2												Tidal L, M, N, P	1
class/subclass	Worm	RF3													
SIS	Streambed	SB													7
ds	Bedrock	SB1													
)	Rubble	SB2													1
	Cobble-Gravel	SB3					Hallmall.							Nontidal A, C, J, K	1
	Sand	SB4												Tidal M, N, P, R*, S*	
	Mud	SB5													
	Organic	SB6													1
	Vegetated (pioneer plants)	SB7													┙
	Rocky Shore	RS												Nontidal A, C, J, K	
	Bedrock	RS1												Tidal M, N, P, R*, S*	
	Rubble	RS2													4
	Unconsolidated Shore	US					BIRT								
	Cobble-Gravel	US1													
	Sand	US2											GREET STREET	Nontidal A, C, J, K	
	Mud	US3				alicality		RESIDENCE OF STREET	W (S pue C					Tidal M, N, P, R*, S*	
	Organic	US4		21 × 10 × 1									DANGE OF STREET		
	Vegetated (pioneer plants)	US5													

† Unknown Perennial R5 - This Subsystem designation was created specifically for use when the distinction between Lower Perennial, Upper land Tidal subsystems cannot be made through remote sensing and no supplementary data are available. Use is limited to the Unconsolidated Bottom class. The only valid code is R5UB.

class. The only valid code is ROOB.		
* Tidally influenced freshwater systems.	Valid	Invali

Wetlands and Deepwater Habitats Mapping Codes continued

							Sys	tem and Su	ubsystem					
			Ma	rine	Estu	Estuarine		Riv	verine		Lacus	trine	Palustrine	
		Code	Subtidal M1	Intertidal M2	Subtidal E1	Intertidal E2	Tidal R1	Lower Perennial R2	Upper Perennial R3	Intermittent R4	Limmetic L1	Littoral	N/A P	
-	Moss-Lichen	ML	1011	1012		LZ	131	112	110	134				
	Moss	ML1												Nontidal B
	Lichen	ML2											N. S.	
	Emergent	EM												N. 6114 B O F F O H I K
	Persistent	EM1				TO SENTE							REPORTED TO	Nontidal A, B, C, E, F, G, H, J, K
	Phragmites	EM5				San Files S								Tidal N, P, R*, S*, T*
	Nonpersistent	EM2												Nontidal F, G, H, K Tidal N and T*
	Scrub-Shrub	SS		¥:										
SS	Broad-leaved Deciduous	SS1												
Class/Subclass	Needle-leaved Deciduous	SS2												Nontidal A, B, C, E, F, G, H, J, K Tidal M, N, P, R*, S*, T*
gn	Broad-leaved Evergreen	SS3				Samuel Land					0.5			Nontidal A, B, C, E, F, G, H, J, K
SIS	Needle-leaved Evergreen	SS4				123050								Tidal M, N, P, R*, S*, T*
as	Dead	SS5												
٥	Deciduous	SS6					291 11 17							
	Evergreen	SS7												
	Forested	FO												
	Broad-leaved Deciduous	FO1												
	Needle-leaved Deciduous	FO2												
	Broad-leaved Evergreen	FO3												Nontidal A, B, C, E, F, G, H, J, K
	Needle-leaved Evergreen	FO4												Tidal M, N, P, R*, S*, T*
	Dead	FO5												
	Deciduous	F06											ESMAN	
	Evergreen	FO7												

		ler to more adequately describe were may be applied to classes or s															
Water Re	gim	e Modifiers		Special Modifiers	П			Other Modif	iers								
Nontidal		Saltwater tidal	The	ese Codes are used to indicate		Other modifiers are not widel					ied v	w here					
A Temporarily Flooded L Subtidal				pitats modified or created by man	additional information or field work provides sufficient information,												
Saturated M Irregularly Exposed				peaver. The use of only one		Wa	Water Chemistry										
C Seasonally Flooded	N	Regularly Flooded		ecial modifier is permitted, (e.g.		Coastal	Inland			pH Modifiers		Soil					
E Seasonally Flooded /			P Irregularly Flooded			P Irregularly Flooded			3Hx).		Halinity		Salinity	for all Freshwater			
Saturated			b	Beaver	1	Hyperhaline	7	Hypersaline	а	Acid	g	Organic					
F Semipermanently Flooded		Freshwater Tidal	d	Partly Drained/Ditched	2	Euhaline	8	Eusaline	t	Circumneutral	n	Mineral					
G Intermittently Exposed	S	Temporarily Flooded -Tidal	f**	Farmed	3	Mixohaline (Brackish)	9	Mixosaline	1	Alkaline							
H Permanently Flooded	R	Seasonally Flooded-Tidal	h***	Diked/Impounded	4	Polyhaline	0	Fresh									
J Intermittently Flooded	Т	Semipermanently Flooded-Tidal	r	Artificial	5	Mesohaline											
K Artificially Flooded	V	Permanently Flooded-Tidal	s	Spoil	6	Oligohaline											
			х	Excavated	0	Fresh											

* Tidally influenced freshwater systems.

^{**} Farmed wetlands are normally Pf (Palustrine farmed) but cultivated cranberry bogs may be classified as PSSf.

^{***} Because the diked/impounded modifier is crucial for sea-level models, it is given priority over any other modifiers.

Example, diked/impounded - spoil areas will be coded h for diked/impounded.